

ABSTRACT

Systems and methods reduce aberrations in a wavefront imaged by an optical system having a non-linear detector. A wavefront of electromagnetic radiation from an object imaged to the non-linear detector is encoded. Data from the non-linear detector is
5 digitally converted to form a digital representation of the image captured by the non-linear detector. The detected image is linearized to form a linearized image. The linearized image is filtered to reverse effects of wavefront coding to form a final image.